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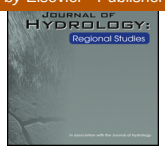

Peer Review Report

Peer review report 1 On "Watershed area ratio accurately predicts daily streamflow in nested catchments in the Catskills, New York"

Original Submission

1.1. Recommendation:

Major Revision

Comments to Author:

This manuscript describes research that uses the map correlation method to predict daily discharge in the Catskill Mountains watersheds. High correlations are found throughout the region based on this method.

It should not be a surprise that area-normalized discharge is highly correlated within this region, not because of any characteristics of the region other than its small size (as is noted in the discussion). As a regional piece of hydrologic research, this manuscript is useful. It does not contribute new insights about why different watersheds might correlate better or worse, which could be a way to improve the manuscript.

Generally, the discussion is quite long compared to other sections, but the discussion does not attempt to mechanistically describe why these different watersheds are showing differences. Are the differences due to differences in groundwater, energy balance, soil type, etc.?

p 2 line 3 - Better references are necessary than Lowe and Likens for this statement.

p3 line 20 - Climate and vegetation descriptions are needed. This is a place-focused journal, so you need to describe your place carefully.

p12 line 7 - This section on simulation modeling should be removed. It is not helping place the research results in context.

Figure 1 - please show rivers and regional watershed boundaries. This map is not as informative as it could be.

Anonymous

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2214-5818/$ – see front matter
http://dx.doi.org/10.1016/j.ejrh.2016.01.011